

## ABSTRACT

An article including a substrate, a layer of a metal phosphate material such as an aluminum phosphate material upon the surface of the substrate, and a layer of an oriented cubic oxide material having a rock-salt-like structure upon the metal phosphate material  
5 layer is provided together with additional layers such as a HTS top-layer of YBCO directly upon a layer of a buffer material such as a  $\text{SrTi}_x\text{Ru}_{1-x}\text{O}_3$  layer.